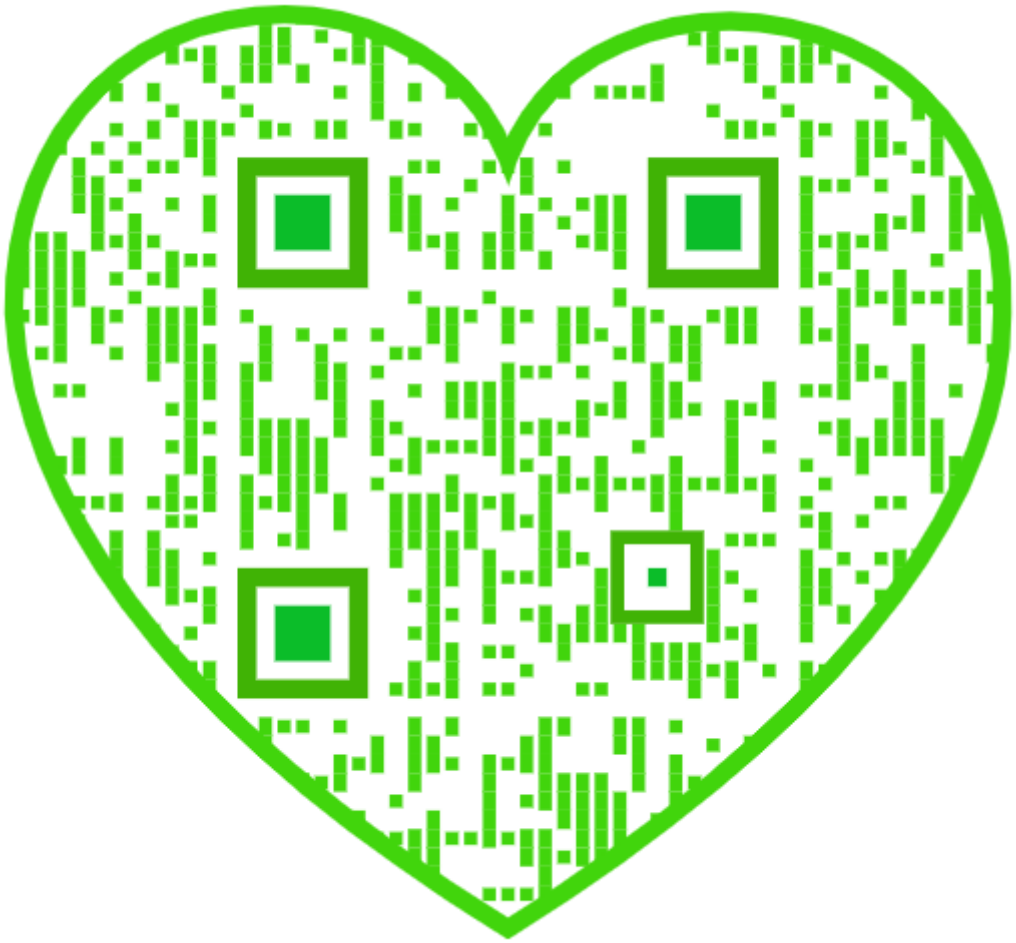

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 240

BAKING POWDERS

23601—1

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BAKING POWDERS

OTTAWA, May 28, 1912.

WM. HIMSWORTH, Esq.,
Assistant Deputy Minister,
Inland Revenue Department,
Ottawa.

SIR,—I beg to hand you a report upon 150 samples of baking powders, collected throughout Canada in October and November last.

Baking powders have been examined, in the large way, on four different occasions, since the Adulteration Act came into force, the last inspection being reported in Bulletin 174 (February, 1909).

This article warrants examination from two points of view; first, its efficiency as a gas producer for baking purposes; second, as regards the wholesomeness of the materials from which it is made, and the residues left in the finished bread.

So far as the present report is concerned, the baking powders found upon the Canadian markets may be arranged in four classes, on the basis of their essential acid components, as follows:—

	Samples.
Alum phosphate powders	68
Cream of tartar "	46
Acid phosphate "	31
Alum powders	5
Total	150

No complaint, upon the ground of wholesomeness, has been formulated against cream of tartar or acid phosphate powders, to my knowledge. The wholesomeness of such as contain alum, either as the sole acid component, or in combination with acid

phosphate of lime, has frequently been questioned, and is, at present, an unsettled point. The matter is now in the hands of a Referee Board at Washington, D.C., composed of men whose qualifications and character are such as to command the respect of the scientific world. I am, for this reason, unwilling to open the question of alum as a material in baking powder; preferring to await publication of the results obtained by the aforesaid Referee Board.

As regards the effectiveness of baking powders of the above classes, we have the following to record:—

68 alum phosphate powders, average	10·78	per cent	gas
46 cream of tartar " "	11·01	"	"
31 acid phosphate " "	11·25	"	"
5 alum powders average.....	...12·40	"	"

After much consideration of the matter, and conference with manufacturers, I am of opinion that it is reasonable to require all baking powders, as sold, to yield a minimum of ten (10) per cent available gas.

These powders, as made, usually contain a slight excess of bi-carbonate of soda, so that the further addition of an acid gives a certain further amount of gas, called residual gas. This residual gas is not available in baking, except when sour milk, or other acid ingredient is added to the bread. For purposes of judging the value of a baking powder, the available gas should alone be considered.

From this point of view thirty-five (35) samples are below standard strength, twenty-three (23) of these being more than one per cent below the standard, and several of them being much more than one per cent below. Details are as follow:—

Acid phosphate powders—

Less than one per cent below.....	6	
More " "	11	
	——	17
Cream of tartar powders—		
Less than one per cent below.....	6	
More " "	7	
	——	13
Phosphate powders—		
More than one per cent below.....		5
		——
Total..		35

It is in the nature of baking powder to deteriorate (in the sense of yielding gas) by keeping: the rate of deterioration depending much upon the hygroscopicity of the materials; their initial purity, the way in which it is packed, and the conditions under which it is stored. It is clear that so far as length of time in stock, and conditions of storage are concerned, the manufacturer of the powder is irresponsible: for this reason, the retail vendor must be held responsible for the strength (gas producing power) of the article he sells. He should assure himself of the quality of the goods he buys, for his own protection; and this is provided for in section 33 of the Act; for their condition as he sells them, he must hold himself responsible.

Since we have as yet, no legal minimum prescribed for the strength of baking powders, none of those now reported can be described as adulterated under the Act. A glance at the tables accompanying this report will show that baking powder of very varying strength is offered for sale; and will emphasize the necessity of fixing a minimum gas producing power for a legal baking powder.

I have the honour to be, sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF NOVA SCOTIA—	
1911.							
Oct. 16	Baking Powder.	46711	F. L. Seldon & Son, Liverpool, N.S.	3 pkgs	25	E. W. Gillett Co., Toronto.	Unknown
" 18	"	46712	H. C. Barnaby & Son, Bridgewater, N.S.	3 "	45	Nat. Drug Co., Halifax, N.S.	Mfrs.
" 18	"	46713	H. E. Hall, Bridgewater, N.S.	3 "	30	E. W. Gillett Co, Toronto.	Ino. Tobin & Co., Halifax.
" 25	"	46714	Nat. Drug & Chem. Co., Halifax, N.S.	½ lb	30	Vendors	
" 25	"	46715	J. Frank Crowe Co., Ltd., Halifax.	3 pkgs	12	E. W. Gillett Co., Toronto.	Mfrs.
" 25	"	46716	Bauld Bros., Ltd., Halifax, N.S.	3 "	10	W. M. D. Pearman, Halifax.	Mfr.
" 26	"	46717	W. M. D. Pearman, Halifax, N.S.	3 "	10	Vendor	
" 26	"	46718	W. J. Fornstall & Co., Halifax, N.S.	3 "	15	W. M. D. Pearman, Halifax.	Mfr.
" 27	"	46719	Wentzell's Ltd., Halifax, N.S.	3 "	25	White Swan Mills, Toronto, Ont.	Mfrs.
" 27	"	46720	Woodill Mfg. Co., Halifax, N.S.	3 "	10	Vendors	
						DISTRICT OF PRINCE EDWARD ISLAND—	
Oct. 16	Baking Powder.	46136	John McKenna, Charlottetown, P.E.I.	¼ lb	45	Johnson's Powder Co., New Jersey.	
" 16	"	46137	R. T. Maddigan & Co. Charlotte'wn, P.E.I.	1½ lb.	60	Johnson & Johnson, Charlotte'n, P.E.I.	
" 17	"	46138	S. Sanderson & Co., Charlotte'wn, P.E.I.	1½ "	45	E. W. Gillett Co., Ltd., Toronto, Ont.	
" 18	"	46139	M. Duffy, Charlottetown, P.E.I	¼ "	30	The St. John Coffee & Spice Mills, St. John, N.B.	
" 18	"	46140	Stewart & Son, Charlottetown, P.E.I.	¼ "	30	Snowdon Forbes & Co., Montreal.	
" 20	"	46141	Kier & McFadyen, Kensington, P.E.I	¼ "	45	Nat. Drug & Chem. Co., Halifax, N.S	
" 21	"	46142	Jas. Kennedy, Kensington, P.E.I	1 lb	60	Mayell & Co., Toronto, Ont.	
" 21	"	46143	McLellan & Co, Ltd., Summerside, P.E.I.	1 "	50	Pepsind Baking Powder Co., Montreal.	
" 21	"	46144	Brace McKay & Co, Summerside, P.E.I.	1 "	50	Pure Gold Mfg. Co., Ltd.	
" 26	"	46145	D. J. McLean, Montague, P.E.I.	¼ lb	30	The Robt. Greigg Co., Ltd., Toronto.	
						DISTRICT OF NEW BRUNSWICK—	
Oct. 12	Baking Powder.	45570	Dearborn & Co., St. John, N.B.	3 pks	30	Vendors	
" 14	"	44571	H. W. Cole, Ltd., St. John, N.B.	3 "	22	E. W. Gillett Co., Ltd., Toronto.	
" 22	"	45572	E.W. Rowley, St. John, N.B.	3 "	30	Hamilton Coffee and Spice Co., Ltd.	

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Carbon Dioxide. Available.	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.						
	p.c.	p.c.	p.c.			
Magic Brand	10·74	1·55	12·29	Alum Phosphate	46711	
St. Gerge Brand	9·70	1·30	11·00	Cream of Tartar	46712	Below standard (slightly).
Magic Brand	6·48	1·32	7·80	Alum Phosphate	46713	Below standard.
Sample taken from bulk	12·65	0·72	13·37	Cream of Tartar	46714	
Magic Brand	7·13	1·46	8·59	Alum Phosphate	46715	Below standard.
Woodill's German Brand	10·15	2·82	12·97	Cream of Tartar	46716	
" "	8·57	1·57	10·14	"	46717	"
" "	7·57	0·09	7·66	"	46718	"
White Swan Brand	11·19	1·76	12·95	Phosphate	46719	
New Process Brand	9·87	1·74	11·61	Cream of Tartar	46720	Below standard (slightly).
WM. A. WEEKS, INSPECTOR.						
	11·62	0·43	12·05	Cream of Tartar	46136	
	11·59	1·64	13·23	"	46137	
	11·95	0·58	12·53	Phosphate	46138	
	9·76	1·24	11·00	Cream of Tartar	46139	Below standard (slightly).
	5·12	1·70	6·82	Phosphate	46140	Below standard.
	8·36	1·72	11·08	Cream of Tartar	46141	Below standard.
	11·37	0·32	11·69	Alum Phosphate	46142	
Old Stock	4·86	1·74	6·60	Phosphate	46143	Below stanbard.
	9·46	0·06	9·52	Cream of Tartar	46144	Below standard (slightly).
	7·16	0·94	8·10	Phosphate	46145	Below standard.
J. C. FERGUSON, INSPECTOR.						
Perfect brand	13·09	·65	13·74	Cream of Tarter	45570	
	12·46	·68	13·14	Phosphate	45571	
Invincible 402. McLaren's purity, not guaranteed.	8·94	·62	9·56	Cream of Tarter	45572	Below standard.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK –							
1911.							
Nov. 7	Baking Powder	45573	The Yerxa Grocery Co., Fredericton, N.B.	3 pkgs	40	Dearborn & Co., St John, N.B.	
" 8	"	45574	Woolverton & Gibson, Woodstock, N.B.	3 "	45	Todhunter Mitchell & Co., Toronto.	
" 10	"	45575	F. D. Sadler, Perth, N.B.	3 "	48	Royal Baking Powder Co., New York.	
" 14	"	45576	J. A. Davidson, Sussex, N.B.	1 "	25	Nat. Drug & Chem. Co., Ltd., Canada.	
" 15	"	45577	J. A. Roy, Moncton, N.B.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 16	"	45578	George Stabbs, Newcastle, N.B.	3 "	45	Hamilton Coffee and Spice Co., Hamilton, Ont.	
" 17	"	45579	W. J. Kent & Co., Ltd., Bathurst, N.B.	3 "	30	E. W. Gillett & Co., Ltd., Toronto, Ont.	
DISTRICT OF QUEBEC –							
Oct. 12	Baking Powder.	37328	Gantin & frere, 271 Rue St. Joseph, Que.	3 pks	30	Unknown.	Unknown
" 13	"	37329	G. Gingras, 268 Rue du Pont, Que.	3 "	30	McLarens, Hamilton Mfrs.	
" 16	"	37330	O. Lacroix, 19 Rue St. Joseph, Que.	3 "	39	E. R. Durkee.	J. B. Renaud & Cie
" 16	"	37331	" "	3 "	15	W. D. McLaren.	N. Turcot & Cie
" 16	"	37332	" "	3 "	30	La National, 46 Rue St. Pierre, Que.	J. B. Renaud & frere
" 16	"	37333	" "	3 "	20	Duffy & Co., Montreal	J. B. Renaud & Cie
" 16	"	37334	J. E. Gregoire, 128 Rue du Pont, Que.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	Mfrs.
" 17	"	37335	W. Cantin, 133 Rue du Pont, Que.	3 "	21	Unknown.	Unknown
" 17	"	37336	" "	3 "	45	J. J. Duffy, Montreal	"
" 19	"	37337	Elzear Gangon, 138 Rue D'Orchester, Que.	3 "	30	E. R. Durkee, Montreal.	Bedard et frere, Que.
DISTRICT OF ST. HYACINTHE –							
Oct. 25	Baking Powder.	1182	J. A. Menard, Farnham.	1 box.	10	The F. F. Dalley Co., Ltd., Hamilton.	
" 25	"	1183	J. E. Baillargeon, Farnham.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 26	"	1184	Lewis Bergeron, Waterloo, P.Q.	1 "	15	Unknown.	
" 26	"	1185	Boright & Safford, Sutton, P.Q.	1 "	20	The Brodies Mfg. Co., Montreal.	
Nov. 6	"	1186	May & Houlahan, Sherbrooke, P.Q.	1 "	25	W. D. McLaren, Ltd., Montreal.	
" 8	"	1187	J. O. Moreau, Megantic.	1 "	25	Herron Leblanc, Ltd., Montreal.	

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available.	Residual.	Total.			
J. C. FERGUSON, INSPECTOR—*Continued.*						
	p. c.	p. c.	p. c.			
	11·11	·86	11·97	Cream of Tartar.	45573	
	11·38	·16	11·54	"	45574	
	11·82	·39	12·21	"	45575	
St. George brand.	8·45	1·11	9·56	"	45576	Below standard.
	12·39	·40	12·79	Phosphate	45577	
McLaren's Invincible	8·42	·93	9·35	Cream of Tartar	45578	Below standard.
	12·70	·28	12·98	Phosphate	45579	
F. X. W. E. BELAND, INSPECTOR.						
	13·20	·60	13·80	Phosphate	37328	
	10·90	1·50	12·40	Alum Phosphate	37329	
	13·50	·20	13·70	Cream of Tartar & a little phosphate	37330	
	9·90	1·10	11·00	" "	37331	Below standard (slightly).
	14·40	·80	15·20	Alum	37332	
	10·80	·30	11·10	Alum Phosphate	37333	
	11·40	1·20	12·60	Phosphate	37334	
	12·50	·60	13·10	Cream of Tartar & a little phosphate	37335	
	10·70	1·20	11·90	Alum Phosphate	37336	
	12·00	·20	12·20	Cream of Tartar & a little phosphate	37337	
J. C. ROULEAU, INSPECTOR.						
Guaranteed pure by mfrs.	10·53	1·44	11·97	Alum Phosphate	1182	
	11·80	0·33	12·13	Phosphate	1183	
Box marked Fabrique pour Louis Bergeron.	12·75	1·23	13·98	"	1184	
	13·14	0·59	13·72	Alum Phosphate	1185	
Cooks Friend	10·33	1·07	11·40	Cream of Tartar.	1186	
Yeastrine	12·44	2·62	15·06	Alum Phosphate	1187	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF ST. HYACINTHE—							
1911.							
Nov. 9	Baking Powder.	1188	D. S. Bachand, Coaticook.	1 box.	20	The Brodies, Montreal.	
" 10	"	1189	C. H. Kathan, Rock Island, P.Q.	1 "	25	Royal Baking Powder, New Jersey.	
" 22	"	1191	R. Goulet, Sorel.	3 "	15		J. V. Boudrais, Montreal.
" 23	"	1192	E. Brunnette, St. Hyacinthe.	3 "	15	O. Lefebvre, Montreal.	
DISTRICT OF MONTREAL—							
Oct. 17	Baking Powder	40921	O. Sansregret, 500 Duluth Ave. E., Montreal.	3 tins.	15	Unknown	
" 18	"	40922	G. W. Barsalo, 1067 St. James St., Montreal.	3 "	30	S. H. Ewing & Sons, Montreal.	
" 18	"	40923	J. O. Poupart, 340 Seigneurs St., Montreal.	3 "	45	Alredie Pure Food Co., Ltd., Montreal.	
" 18	"	40924	U. Bosquet, 892 Notre Dame West, Montreal.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	40925	" "	3 "	15	Ocean Mills, Montreal.	
" 18	"	40926	Archambault freres, 747 Notre Dame West, Montreal.	3 "	30	J. J. Duffy & Co., Montreal.	
" 19	"	40927	Harris & Co., 158 De Montigny E., Montreal.	3 "	30	Canada Coffee and Spice Mills, Montreal.	
" 19	"	40928	H. Lagace, 252 Amherst St., Montreal.	3 "	25	Windsor Mills, H. L. Co., Ltd., Montreal.	
" 19	"	40929	Thomas Dulude, 486 Lagauchetiere St., Montreal.	3 "	45	Bijou Mills, Montreal.	
" 19	"	40930	J. V. Boudrais, 223 Notre Dame East, Montreal.	3 "	25	Vendor	
DISTRICT OF OTTAWA—							
Oct. 10	Baking Powder.	40931	Alexr. Sibbitt, Carleton Place.	3 tins.	30	German, Eckert & Co., Ltd., London, Ont.	
" 12	"	40932	E. C. Armand, Arnprior.	3 "	45	"	
" 13	"	40933	Mundle & Percival, Kemptville.	3 "	75	Unknown	Unknown
" 14	"	40934	F. W. Forde, Ottawa	3 "	1 50	The Brodie Mfg. Co., Montreal.	
" 16	"	40935	Jas. E. Lindsay, Almonte.	3 "	30	The J. J. Farming Co., Ottawa, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 20	"	40936	J. T. Kearns, Chesterville.	3 "	1 50	Mayell & Co., Toronto.	

BAKING POWDERS.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis. Carbon Dioxide. Available.	Residual.	Total	Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR—*Continued.*						
	p.c.	p.c.	p.c.			
Red Rose	9·68	1·99	11·67	Alum Phosphate	1188	Below standard (slightly).
Royal	12·47	0·47	12·94	Cream of Tartar	1189	
White Rose	9·52	0·53	10·05	Alum Phosphate	1191	Below standard (slightly).
Ocean	6·32	5·79	12·11	"	1192	Below standard.
J. J. COSTIGAN, INSPECTOR.						
Put up specially for vendor.	8·60	0·30	8·90	Alum Phosphate	40921	Below standard.
S... Brand	12·10	0·20	12·30	"	40922	
Alredie	9·30	1·60	10·90	Cream of Tartar and trace of phosphate.	40923	Below standard (slightly).
Magic	12·50	0·60	13·10	Phosphate.	40924	
Ocean	9·60	2·80	12·40	Alum Phosphate	40925	Below standard (slightly).
Cooks Favourite	10·30	0·80	11·10	"	40926	
Mount Royal	10·80	0·40	11·20	"	40927	
New York	13·30	0·70	14·00	"	40928	
Crown	7·60	1·60	9·20	"	40929	Below standard.
White Rose	11·30	0·10	11·40	"	40930	
J. A. RICKEY, INSPECTOR.						
Forest City	10·50	0·30	10·80	Alum Phosphate	49031	
Maple Leaf. Mfg. for Vendor.	13·80	0·20	14·00	"	49032	
	10·30	0·60	10·90	Alum and a little phosphate.	49033	
Red Rose. Strong pure and wholesome.	12·90	2·60	15·50	Phosphate	49034	
Farming's Malt	15·40	1·10	16·50	Alum	49035	
Art. Guaranteed absolutely pure.	7·30	2·30	9·60	Alum Phosphate	49036	Below Standard.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA							
1911.							
Oct. 25	Baking Powder.	49037	A. E. Ken & Co., Ltd., Ottawa.	3 tins.	30	C. H. Cochrane, Ottawa.	
" 25	" ..	49038	I. Hoole, Clarence st., Ottawa.	3 "	15	W. D. McLaren, Ltd., Hamilton.	C. Major, Ltd., Ottawa.
" 25	" ..	49039	L. Mabette, Murray st., Ottawa.	3 "	27	Lister Pure Food Co., Ltd., Toronto.	
" 25	" .	49040	P. Lamoureux & Cie., Dalhousie st., Ottawa	3 "	45	Royal Baking Powder Co., New Jersey.	Provost & Allard, Ottawa.
DISTRICT OF KINGSTON—							
Nov. 1	Baking Powder.	48584	Geo. Gibson, Kingston.	3 tins.	30	Gillett, Ltd., Toronto.	
" 1	" ..	48585	C. H. Pickering, Kingston.	3 "	30		
" 2	" ..	48586	M. Nolan, Kingston ..	3 "	45	Royal Baking Powder	
" 2	" .	48587	J. Crawford, Kingston.	3 "	45	F. F. Dalley, Hamilton.	
" 2	" ..	48588	J. Lennon, Kingston ..	3 "	45	Vendor	
" 2	" ..	48589	J. McCulla, Kingston	3 "	45	Cleveland's Baking Powder.	
" 2	" ..	48590	M. Purtell, Kingston.	3 "	30	F. F. Dalley, Hamilton.	
" 2	" .	48591	J. R. E. Gaze, Kingston.	3 "	45	Gage Bros., Hamilton	
" 2	" ..	48592	W. Powers, Kingston .	3 "	39	Powers	
" 2	" ..	48593	J. Redden, Kingston .	3 "	45	Royal Baking Powder	
DISTRICT OF TORONTO—							
Oct. 18	Baking Powder.	47395	D. J. Donovan, Walnut St., Hamilton.	3 pkg.	30	McLarens Ltd., Hamilton.	
" 18	" .	47396	Norman & Co., 97 Main St. West, Hamilton.	3 "	15	Vendors	
" 20	" .	47397	E. W. Gillett Co. Ltd., Toronto.	3 "	20	"	
" 20	" .	47398	The White Swan Spice and Cereals, Ltd., Toronto.	3 "	20	"	
" 24	" .	47399	H. G. Anslie, Owen Sound.	3 "	30		Young-Windfield, Ltd., Hamilton.
" 26	" .	47400	Wheeler Bros., Collingwood.	3 "	30	Lister Pure Food Co., Ltd., Toronto	
" 27	"	49301	J. A. Brown, Collingwood	3 "	30	" "	
" 27	"	49302	Jas. Chalmers, Collingwood	3 "	45		
" 27	"	49303	Chas. Cornstean, Barrie	3 "	45	White Swan Spice and Cereal Co., Ltd, Toronto.	
Nov. 2	" .	49304	J. S. Kyle, Ottawa. .	3 "	30	Foshunter, Mitchell & Co., Ltd., Toronto	Mfrs

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Carbon Dioxide. Available	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR—*Continued.*						
	p. c.	p. c.	p. c.			
Our Own. Mfg. for Vendors.	13 10	0·90	14·00	Alum Phosphate	49037	
Cook's Friend.....	10 80	0 50	11 30	Cream of Tartar & a little phosphate	49038	
Thistle. Mfg. for Vendor.	14 90	1·60	16 10	Alum Phosphate..	49039	
Royal. Absolutely pure.	12 4·	0·20	12 60	Cream of Tartar..	49040	
JAS. HOGAN, INSPECTOR.						
....	12 20	2 50	14 70	Phosphate.....	48584	
....	13 00	0 40	13·40	"	48585	
....	11·1·	0 30	11·40	Cream of Tartar..	48586	
....	11 10	0·60	11·70	Alum with a little phosphate.	48587	
... .	12 70	0 40	13 10	Alum Phosphate	48588	
....	10 30	0 60	10·90	Cream of Tartar .	48589	
....	10 80	0 20	11·00	Alum with a little phosphate.	48590	
....	12 20	0 60	12 80	Alum Phosphate..	48591	
....	11·20	0·40	11·60	Phosphate & trace of Alum.	48592	
....	11 20	0·40	11 60	Cream of Tartar..	48593	
H. J. DAGER, INSPECTOR.						
'Ocean Wave'..... .	11·90	1·50	13·40	Alum Phosphate..	47395	
'Red Ribbon'	12 80	2 30	15 10	" ..	47396	
'Magic.' Contains no alum.	11·70	0·20	11·90	Phosphate..... .	47397	
White Swan. Contains no alum. Guaranteed absolutely pure.	12 20	1 80	14·00	"	47398	
'Mother's Choice'.	10 50	1 10	11 60	Phosphate and trace of alum.	47399	
'Wheeler Bros.' Put up for vendors by mfrs.	9 70	0 80	10 50	Alum Phosphate..	47400	Below standard (slightly).
'Pure Food.'..... . .	11 80	0 30	12 10	" ..	49301	
'Maple Leaf.' Put up expressly for vendors.	11·80	1 76	13 56	" ..	49302	
Ocean Foam. Portectly pure. Put up for vendor by mfrs.	11 00	0 70	11 70	" ..	49303	
White Lily. Quality guaranteed.	10 42	0 87	11·29	Phosphate..... .	49304	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1911.							
Oct. 16	Baking Powder.	47805	Clute & Smith, St. Thomas.	3 pkg.	30	E. W. Gillett Co., Toronto.	
" 16	"	47807	Moylan & Moylan, St. Thomas.	3 "	30	Gorman, Eckert & Co., London.	
" 16	"	47810	E. J. Witheford, St. Thomas.	3 "	30	I. X. L. Spice and Coffee Co., London.	
" 16	"	47811	C. J. Norsworthy, St. Thomas.	3 "	30		E. Adams & Co., London.
" 17	"	47815	J. Caron, Ridgetown.	3	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	47828	I. Vandour & Son, Leamington.	3 "	30	Hamilton Spice and Coffee Co., Hamilton.	
" 18	"	47831	G. M. Sawyer, Leamington.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	47835	Robinson Bros., Leamington.	3 "	30	Todhunter & Mitchell, Toronto.	
" 19	"	47845	A. H. Scarff, Essex	3 "	30	Hamilton Spice and Coffee Co.	
" 19	"	47849	Millar & Wigle, Essex.	3 "	10	Egg-O Baking Co., Hamilton.	
DISTRICT OF MANITOBA—							
Oct. 23	Baking Powder.	47428	Blue Ribbon Ltd., Winnipeg.	24 oz.	25	Vendors	
" 23	"	47429	Campbell Bros. & Wilson, Winnipeg.	½ lb	Nil.	"	
" 23	"	47430	The Gold Standard Mfg. Co., Winnipeg.	½ "	"	"	
" 24	"	47431	The White Star Mfg. Co., Winnipeg.	½ "	"	"	
" 24	"	47432	The Dyson Co., Winnipeg.	½ "	"	"	
" 25	"	47433	McKush & Burbanner, Winnipeg.	½ "	10	The White Star Mfg. Co., Winnipeg.	Unknown.
" 25	"	47434	Moffett & Douglas, Winnipeg.	½ "	25	The Price Baking Co., Chicago.	"
" 25	"	47435	Western Mercantile Co., Ltd., Winnipeg.	½ "	10	The Gold Standard Mfg. Co., Winnipeg	"
" 25	"	47436	A. J. Kemball, Winnipeg.	½ "	15	"	"
" 26	"	47437	H. Logrenia, Winnipeg	½ "	20	The Blackwood Ltd., Winnipeg.	"
DISTRICT OF CALGARY—							
Nov. 9	Baking Powder.	44052	Hewitt & Armstrong, Medicine Hat.	3 tins.	75	Price Baking Powder Co., Chicago.	
" 9	"	44053	A. W. Curran, Winnipeg.	3 "	45	W. A. Jamieson, Coffee Co., Victoria, B. C.	
" 15	"	44054	L. T. Mewburn & Co., Ltd., Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	

BAKING POWDERS.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available.	Residual.	Total.			
JNO. TALBOT, INSPECTOR.						
	p.c.	p.c.	p.c.			
Magic.	11·19	0·56	11·75	Phosphate.....	47805	
....	8·19	0·83	9·02	Alum Phosphate..	47807	Below standard.
.....	12·96	0·41	13·37	" ..	47810	
Fan....	12·66	1·15	13·81	" ..	47811	
....	12·78	0·14	12·92	Phosphate.....	47815	
Ocean Wave....	10·94	2·05	12·99	Alum Phosphate..	47825	
....	13·70	0·26	13·96	Phosphate.....	47831	
Todhunter Excelsior... .	11·23	0·05	11·28	Cream of Tartar..	47835	
Ocean Wave.	10·38	3·13	13·51	Alum Phosphate..	47845	
. ...	14·74	1·96	16·70	" ..	47849	
A. C. LARIVIERE, INSPECTOR.						
Blue Ribbon....	11·47	1·20	12·67	Alum Phosphate..	47428	
Royal Shield... .. .	11·47	1·80	13·27	" ..	47429	
Gold Standard.....	12·65	0·65	13·30	" ..	47430	
White Star.....	9·30	2·90	12·20	" ..	47431	Below standard (slightly).
Red Cross.....	11·20	2·87	14·07	" ..	47432	
White Star.....	10·19	1·11	11·30	" ..	47433	
Dr. Price's Cream.....	12·37	0·65	13·02	Cream of Tartar ..	47434	
Gold Standard.....	10·44	1·07	12·31	Alum Phosphate.	47435	
"	10·36	1·29	11·65	" ..	47436	
Blackwood.....	11·88	1·37	13·25	" ..	47437	
R. W. FLETCHER, INSPECTOR.						
....	12·40	0·40	12·80	Cream of Tartar & a little phosphate	44052	
....	12·20	1·40	13·60	Alum Phosphate..	44053	
....	13·10	....	13·10	Phosphate	44054	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF CALGARY—							
1911.							
Nov. 15	Baking Powder.	44055	G. F. & J. Gait, Winnipeg.	2 tins.	25	Blue Ribbon Mfg. Co. Ltd. Winnipeg.	
" 15	"	44056	Campbell Wilson & Horne, Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	
" 15	"	44057	Georgeson & Co., Ltd., Calgary.	3 "	25	Vendor.	
" 16	"	44058	J. A. Nolan, Calgary	3 "	75	Wm. Pryce's, Chicago U.S.	
" 16	"	44059	Calgary Milling Co. Ltd., Calgary.	3 "	75	H. Stelling & Co., San Francisco, U.S.	
" 16	"	44060	Hudson's Bay Co., Calgary.	3 "	75	The Georgeson Co., Ltd., Calgary.	
" 16	"	44061	S. G. Freeze, Calgary	3 "	75	"	
DISTRICT OF NELSON—							
Oct. 19	Baking Powder.	48429	Crow's Nest Trading Co., Fernie, B.C.	3 tins.	45	E. W. Gillett Co., Toronto.	
" 19	"	48431	Trites Wood Co., Fernie, B.C.	3 "	30	White Star Mfg. Co., Winnipeg.	
" 19	"	48432	" "	3 "	75	Price Baking Powder Co., Chicago.	
" 19	"	48441	Fernie Co-op. Assocn., Fernie, B.C.	3 "	1 35	E. W. Gillett Co., Toronto.	
" 19	"	48442	" "	3 "	45	Georgeson & Co., Calgary.	
" 27	"	48455	Union Co-op. Assocn., Rossland, B.C.	3 "	1 50	Mayell & Co., Toronto	
" 27	"	48456	" "	3 "	75	Crescent Mfg. Co., Seattle.	
" 27	"	48465	Hunter Bros., Rossland, B.C.	3 "	60	Coldyke B. P. Co., Winnipeg.	
" 27	"	48466	" "	3 "	60	Price B. P. Co., Chicago.	
" 28	"	48482	A. S. Horswill, Nelson, B.C.	3 "	30	Coldyke B. P. Co., Winnipeg.	
DISTRICT OF VANCOUVER—							
Oct. 20	Baking Powder.	38225	Gruchy & Carlow, Granville st., Vancouver.	2049 16 oz.	25	Eggo Baking P. Co., Regina, Sask.	
" 20	"	38226	London Grocery Co., Fairview Branch, Vancouver.	3 tins.	75	Dr. Price Co., Chicago	
" 20	"	38227	White-Thompson Co., Granville st., Vancouver.	12 oz.	20	Gillett & Co., Toronto	
" 20	"	38228	A. C. Bartig, Granville st., Vancouver.	12 "	20	Pure Gold Co., Toronto.	
" 20	"	38229	A. McFarlane, Granville st., Vancouver.	12 "	25	Coldyke Co., Winnipeg.	

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available.	Residual.	Total.			
R. W. FLETCHER, INSPECTOR—*Continued.*						
	p.c.	p.c.	p.c.			
... ...	11 30	0 20	11 50	Alum Phosphate..	44055	
... .	12·60	0 20	12 80	Phosphate.... .	44056	
.. ..	12 70	0 80	13 50	Alum Phosphate..	44057	
. ...	12 30	0 60	12·90	Cream of Tartar & a little phosphate	44058	
....	12 30	1·10	13·40	Cream of Tartar ..	44059	
....	13·60	0 20	13 80	Alum Phosphate..	44060	
... .	14 00	0 60	14 60	» ..	44061	
THOS. PARKER, INSPECTOR						
....	12 50	·40	12 90	Phosphate	48429	
....	10·50	1 10	11 60	Alum Phosphate..	48431	
.....	12 00	20	12 20	Cream of Tartar & a little phosphate	48432	
.. . .	12 20	·60	12 80	Cream of Tartar.	48441	
.. ..	9·60	·50	10·10	Alum Phosphate	48442	Below standard (sl ghtly).
. ...	10·75	1 20	11·95	» ..	18455	
.. ..	8 10	·90	9·00	Phosphate and a little alum.	48456	Below standard.
.. ..	10·60	·80	11·40	Alum Phosphate..	48465	
. ...	13 00	90	13 90	Cream of Tartar & a little phosphate	48466	
....	11 50	·30	11 80	Alum Phosphate..	48482	
J. F. POWER, INSPECTOR.						
Guaranteed by Mfrs.....	10 64	2 04	12·68	Alum Phosphate..	38225	
Made from pure grape cream of tartar, tartaric acid, bicarbonate soda and corn starch.	12 20	·52	12·72	Cream of Tartar .	98226	
Magic, phosphate, bicarbonate soda and starch.	12 37	·41	12·78	Phosphate.....	38227	
Fully warranted in every respect.	10 44	06	10 50	Cream of Tartar .	38228	
. ...	10·75	1 60	12·35	Alum Phosphate..	38229	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1911.							
Oct. 20	Baking Powder.	38230	Jackson's Grocery, Cedar Cottage, Vancouver.	12 oz.	40	Royal Baking Powder, New York.	
" 20	"	38231	D. A. Finan, Park Drive, Vancouver.	12 "	20	Empress Mfg. Co., Vancouver.	
" 20	"	38232	T. A. Brewis, Park Drive, Vancouver.	12 "	25	Blue Ribbon Co., Winnipeg.	
" 20	"	38233	Main's Grocery, Park Drive, Vancouver.	12 "	25	Unknown.	
" 20	"	38234	Swindell & Banbury, Vancouver.	12 "	25	White Star Mfg. Co., Winnipeg.	
DISTRICT OF VICTORIA—							
Oct. 25	Baking Powder.	47661	Windsor Grocery Co., Victoria, B.C.	3 pks.	75	The Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 25	"	47662	" "	3 "	75	" "	
" 26	"	47663	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Nat. Drug and Chem. Co., Montreal.	
" 28	"	47664	" "	3 "	75	Royal B. P. Co., New Jersey.	
Nov. 9	"	47665	Copas & Young, Victoria, B.C.	3 "	60	Price B. P. Co., Chicago.	
" 9	"	47666	Wm. B. Hall, Victoria, B.C.	3 "	75	A. Shilling & Co., San Francisco, Cal.	
" 13	"	47667	Erskine & Co., Victoria, B.C.	3 "	75	W. A. Jamieson Coffee Co.	
" 13	"	47668	F. L. Plummer, Victoria, B.C.	3 "	60	E. B. Ribbon, Ltd., Winnipeg.	
" 15	"	47669	D. H. Ross & Co., Victoria, B.C.	3 "	75	Crescent Mfg. Co., Seattle, Wash.	
" 15	"	47670	Harrison & McDonald, Victoria, B.C.	3 "	75	E. W. Gillett Co., Ltd., Toronto.	

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Carbon Dioxide. Available	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and opinion of the Chief Analyst.
J. F. POWER, INSPECTOR—*Continued.*						
	p. c.	p. c.	p. c.			
Cream of tartar, tartaric acid, bicarbonate of soda and starch.	11·80	·61	12·41	Cream of Tartar	38230	
.....	12·35	1·46	13·81	Alum Phosphate..	38231	
Always reliable.	7·04	1·50	8·54	" .	38232	Below standard.
Put up for Main's greecery	7·34	1·71	9·05	" ..	38233	"
Best in the world.	7·27	·98	8·25	" ..	38234	"
D. O'SULLIVAN, INSPECTOR.						
Hygienic.....	11·19	3·36	14·55	Alum Phosphate..	47661	
Pioneer, pure cream of tartar baking powder.	11·42	2·14	13·56	Cream of Tartar, but contains both alum and phosphates.	47662	
St. George.....	8·76	1·30	10·06	Cream of Tartar .	47663	Below standard.
Royal.....	11·94	·69	12·63	" ..	47664	
Dr. Price's cream.	12·30	·60	12·90	Cream of Tartar & a little phosphate	47665	
Shilling's best.....	11·70	1·40	13·10	Cream of Tartar..	47666	
Feather light.....	12·63	·85	13·48	Alum Phosphate..	47667	
Blue Ribbon	7·17	·98	8·16	" ..	47668	Below standard.
Crescent	5·87	·12	5·99	Phosphate with a little alum.	47669	"
Magic.....	12·87	·60	13·47	Phosphate.....	47670	